

(1) GENERATOR NAME UMETCO MINERALS CORP.  
ADDRESS 157 - 47th Street  
CITY Niagara Falls STATE New York  
CONTACT G E Walck PHONE (716) 278-3361

**BARNWELL WASTE MANAGEMENT FACILITY**  
Operated by CHEM-NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259-1781  
RADIOACTIVE SHIPMENT MANIFEST FORM

(4) **Tri-**  
CARRIER State ADDRESS Joplin, Missouri 64801  
TELEPHONE 417-624-3131 SHIPPING DATE 8-21-84  
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .046 mR/hr  
SHIPMENT NO 615-3003 LINER SERIAL NO \_\_\_\_\_  
DRIVER SIGNATURE Robert D. [Signature] DATE 8/21/84

(2) **consigned to**  
CHEM-NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, SC 29812

(3) USE THIS NUMBER ON ALL CONTINUATION PAGES  
VOLUME ALLOCATION NO 688-324  
PAGE 1 OF 2

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>8</u>	<u>41102</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10 CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPIES	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>.054</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>0.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U-233	<u>N/A</u>
U-235	<u> </u>
TOTAL	<u> </u>

(9) WASTE DESCRIPTION Contaminated Soil  
Misc. Debris (10) PHYSICAL FORM/ SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) Metal Oxides  
(12) WASTE FORM CLASS A ☐ A ☐ B ☐ C  
(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations"

(13) ( ☒ ) Yes ( ) No THIS VEHICLE IS CONIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Date 8-21-84 By G E Walck  
Title and Organization Const. Supt - Umetco  
Telephone No (716) 278-3361

Signature [Signature]  
Company Umetco Minerals Corp. Date 8-21-84

**CNSI USE ONLY**

- ☐ This material meets all license requirements  
☐ This material was disposed of in accordance with license  
☐ Discrepancy \_\_\_\_\_

**TRIPLICATE COPY**  
**Form No CNS-201**  
**(9-83)**

Arrival Date \_\_\_\_\_ Arrival Survey No \_\_\_\_\_  
Date/Time Buried \_\_\_\_\_ H P Initial \_\_\_\_\_  
Trench No \_\_\_\_\_ Location Code \_\_\_\_\_  
Waste Class Code \_\_\_\_\_  
Personnel Exposure \_\_\_\_\_

Date \_\_\_\_\_  
Authorized Signature \_\_\_\_\_ Title \_\_\_\_\_

SEE INSTRUCTIONS ON REVERSE SIDE FOR FILLING OUT THIS FORM

UCCNHT0002181

Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO  
ALL CONTINUATION PAGES

CONTINUATION SHEET

PAGE TOTALS

(9-83)

**CARRIER'S COPY**

UCCNHT0002182

(1) GENERATOR NAME UMETCO MINERALS CORP.  
ADDRESS 137 - 47th Street  
CITY Niagara Falls STATE New York  
CONTACT G.E. Walck PHONE (716) 278-3361

(2) **consigned to**  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, S C 29812

**BARNWELL WASTE MANAGEMENT FACILITY**  
Operated by CHEM-NUCLEAR SYSTEMS, INC  
P O Box 726, Barnwell, South Carolina 29812  
(803) 259-1781  
**RADIOACTIVE SHIPMENT MANIFEST FORM**

(3) USE THIS NUMBER ON  
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO 0884-324A PAGE 1  
OF 2

(4) Tri-  
CARRIER State ADDRESS Joplin, Missouri 64801  
TELEPHONE 417-624-3131 SHIPPING DATE 8-21-84  
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .046 mR/hr  
SHIPMENT NO 615-3003 LINER SERIAL NO -----  
DRIVER SIGNATURE Robert D. Decker DATE 8/21/84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
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		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		<input type="checkbox"/> Curies <input checked="" type="checkbox"/> Millicuries					
		ALL ISOTOPIES	TRITIUM	< C 14	Tc 99	I 129	
520	8	.054	NP	NP	NP	NP	0.8

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	↓
TOTAL	↓

(8) TOTAL PALLET VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil  
Misc. Debris (10) PHYSICAL FORM/  
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND  
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS  
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(13) (X) Yes ( ) No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

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Signature J. E. Walck  
Company Umetco Minerals Corp. Date 8-21-84

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Date 8-21-84 By J. E. Walck  
Title and Organization Const. Supt. - Umetco  
Telephone No (716) 278-3361

**CNSI USE ONLY**

- ☐ This material meets all license requirements  
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☐ Discrepancy \_\_\_\_\_

**DISPOSAL SITE COPY**

Form No **CNS 201**  
(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE  
FOR FILLING OUT THIS FORM

Arrival Date \_\_\_\_\_ Arrival Survey No \_\_\_\_\_  
Date/Time Buried \_\_\_\_\_ H P Initial \_\_\_\_\_  
Trench No \_\_\_\_\_ Location Code \_\_\_\_\_  
Waste Class Code \_\_\_\_\_  
Personnel Exposure \_\_\_\_\_

Date \_\_\_\_\_  
Authorized Signature \_\_\_\_\_ Title \_\_\_\_\_

UCCNHT0002183

PAGE 2 OF 2

PAGE 2 OF 2

0.8	41102	520
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DISPOSAL SITE COPY

UCCNHT0002184

(1) GENERATOR NAME UMETCO MINERALS CORP.  
ADDRESS 137 - 47th Street  
CITY Niagara Falls STATE New York  
CONTACT G.E. Walck PHONE (716)278-3361

(2) **consigned to**  
CHEM NUCLEAR SYSTEMS, INC  
P O BOX 726, OSBORN ROAD  
BARNWELL, S C 29812

**BARNWELL WASTE MANAGEMENT FACILITY**  
Operated by CHEM-NUCLEAR SYSTEMS, INC  
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**RADIOACTIVE SHIPMENT MANIFEST FORM**

(3) USE THIS NUMBER ON  
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO  
0884-324A

PAGE 1  
OF 2

(4) **Tri-**  
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520	8	.054	NP	NP	NP	NP	0.8

(7) TOTAL SNM	
ISOTOPE	GRAMS
<u>U 233</u>	<u>N/A</u>
<u>U-235</u>	<u>↓</u>
<u>TOTAL</u>	<u>↓</u>

(8) TOTAL PALLET  
VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil  
Misc. Debris (10) PHYSICAL FORM/  
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND  
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Signature G.E. Walck  
Company Umetco Minerals Corp. Date 8-21-84

Date 8-21-84 By G.E. Walck  
Title and Organization Const. Supt. - Umetco  
Telephone No (716) 278-3361

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(9-83)

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Date/Time Buried \_\_\_\_\_ H P Initial \_\_\_\_\_  
Trench No \_\_\_\_\_ Location Code \_\_\_\_\_  
Waste Class Code \_\_\_\_\_  
Personnel Exposure \_\_\_\_\_

Date \_\_\_\_\_  
Authorized Signature \_\_\_\_\_ Title \_\_\_\_\_

UCCNHT0002185

USE THIS NUMBER ON VOLUME ALLOCATION NO  
ALL CONTINUATION PAGES

PAGE 2 OF 2

PAGE 2 OF 2

PAGE TOTALS

DISPOSAL SITE COPY

UCCNHT0002186

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302 Telephone No. ( 716 ) 278-3361	2. Shipment Identification No. 0884-324A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date August 21, 1984

G.E. Walck, Construction Superintendent  
Typed Name and Title of Agent of Shipper

*G.E. Walck* 8-21-84  
Signature

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P.O. Box 113 Joplin, Missouri 64801 Telephone No. ( 800 ) 641-7591	2. Shipment Identification No. 0884-324A
	3. Transport Trailer No. 445106
4. Scheduled Date of Departure of Shipment: August 21, 1984	5. Estimated Date of Arrival of Shipment: August 23, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date August 21, 1984

*ROBERT DREHER*  
Typed or Printed Name and Title

*Robert Dreher*  
Signature

Form RHA-PNC  
(5/80)SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL  
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1 Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G. E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3. Radioactive Waste Transport Permit No 0211-31-84-X		4 Shipment Identification No.: 0884-324A	
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7 Scheduled Date of Departure of Shipment August 21, 1984		8. Estimated Date of Arrival of Shipment August 23, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific)  I-20, I-26, US-321, S.C. 3 and S.C. 64			

## Manifest Summary

13 Type Container or Cask Wood Boxes	14 Container Spec. CFR 49 173.392 (c)	15. Total No of Containers 8																				
16 Waste Description, Physical and Chemical Form Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17 Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004																					
18. Total Curies .068	19. Transport Group III	20. Total Cubic Feet 520																				
21 Waste Classification																						
<table border="0"> <tr> <td><input checked="" type="checkbox"/> Radioactive LSA</td> <td><input type="checkbox"/> Bulk LSA</td> <td>Normal Form</td> <td>Special Form</td> <td>Fissile</td> </tr> <tr> <td><input type="checkbox"/> Radioactive LSA greater than Type A quantities</td> <td><input type="checkbox"/> Limited quantities and radioactive devices</td> <td><input type="checkbox"/> Type A quantity</td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Class I</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Class II</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Class III</td> </tr> </table>			<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile	<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class I			<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class II			<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile																		
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		<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III																		

UN2912

## CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date August 8, 1984

G. E. Walck - Construction Supt.  
Typed Name and Title of Agent of Shipper

  
(Signature) (G. E. Walck)

## CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

DHEC 802  
(5/80)

Original: S. Carolina  
Copy. Chem-Nuclear

Copies of this form may be reproduced locally as needed)

UCCNHT0002188



Tri-State Motor Transit Company

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

Umetco Minerals Corp.

AT ~~Manitowish~~ ~~Ohio~~

August 21, 19 84 From

~~METALS DIVISION~~  
~~UNION CARBIDE CORPORATION~~

Niagara Falls, NY

For use via carrier truck under the exclusive/sole use shipments/movements

the property described below, in apparent good order, except as noted (contents and condition of packages unknown) marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official Southern Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

CHEM NUCLEAR SYSTEMS, INC.

Consigned to ~~UCC Metals Division~~

BARNWELL MANAGEMENT FACILITIES

SHIPPER'S ORDER NO

CUSTOMER'S ORDER NO

Destination ~~XXXXXX~~ BARNWELL (Osborn Road)

State ~~Colorado~~ S. Carolina

County ~~Montross~~ BARNWELL

Route

Delivering Carrier Tri-State Motor Transit

Car or Vehicle Initials 3216

No 445106

Seal No 262503

No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	*Class or Rate	Check Column
8	Radioactive Materials, I.S.A. n o s (520 cu. ft.)			
	<del>Radioactive Material UN-2912</del>			
	<del>U-NATURAL</del>			
	<del>Uranium/Thorium Residues From Chemical Processing</del>			
	<del>0.016 Max Xcures per Package</del> Less than one ( ) pound source			
	material - solid, metal oxide, contaminated soil.			
	building rubble, wood and plant equipment.			
	This is to certify that the above named materials are properly classified described, packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation			
	Signed <i>G.E. Walck</i> 8-21-84			
	Vehicle assigned for sole use of consignor. Do not load other freight on the vehicle, do not transfer in route and do not break the seal on truck			
	Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation, the shipper provided or affixed, according to applicable regulations, the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon			
	Signed <i>Robert Fisher</i>			

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of consignor)

~~If charges are to be prepaid write "Prepaid" here~~

Third Party

~~INTERESTED~~ (See Below)\*

Received \$

to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per

(The signature here acknowledges only the amount prepaid)

Charges advanced

\$

This shipment is correctly described

Correct weight is lbs

Subject to verification by the

\*L.G. Evans

Umetco Minerals Corp.

P.O. Box 97

Niagara Falls, NY 14302

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

~~METALS DIVISION~~  
~~UNION CARBIDE CORPORATION~~

Umetco Minerals Corporation

Per *G.E. Walck*  
Permanent postoffice address of shipper  
UC 326-34

G.E. Walck

Shipper  
8-21-84

Per

Agent

UCCNHT0002189